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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/690,590 10/18/2000		10/18/2000	MINORU KATAYAMA	107612 2593		
25944	7590	07/28/2003				
OLIFF & I		GE, PLC	EXAMINER			
P.O. BOX 1 ALEXAND		22320	CYGAN, MICHAEL T			
				ART UNIT	PAPER NUMBER	
				2855		
				DATE MAILED: 07/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

				Me						
_		Application	on No.	Applicant(s)	<i>p</i>					
	A - 4i - 11 O	09/690,59	90	KATAYAMA ET A	L.					
. Οπισ	Action Summary	Examiner		Art Unit						
		Michael C		2855						
The MA Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
1)⊠ Responsive to communication(s) filed on <u>07 July 2003</u> .										
2a) ☐ This act	ion is FINAL . 2b)⊠ ∃	This action is	non-final.							
	is application is in condition for allow				e merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims										
4)⊠ Claim(s) <u>1,2,4-8 and 10-12</u> is/are pending in the application.										
4a) Of the above claim(s) is/are withdrawn from consideration.										
5) Claim(s) is/are allowed.										
6)⊠ Claim(s) <u>1,2,4-8 and 10-12</u> is/are rejected.										
7) Claim(s) is/are objected to.										
8) Claim(s) are subject to restriction and/or election requirement.										
Application Papers										
9)☐ The specification is objected to by the Examiner.										
10)⊠ The drawing(s) filed on <u>05 November 2002</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.										
				oved by the Examin	cı.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.										
· ·										
Priority under 35 U.S.C. §§ 119 and 120 13)										
a) ☑ All b) ☐ Some * c) ☐ None of:										
	'	nts have hee	n received							
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.										
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
a) The translation of the foreign language provisional application has been received.										
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)										
2) Notice of Draftsp	nces Cited (PTO-892) erson's Patent Drawing Review (PTO-948) osure Statement(s) (PTO-1449) Paper No(s))		ry (PTO-413) Paper No Patent Application (PT						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09 June 2003 has been entered.
- 2. Claims 1, 2, 4-8, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda (JP 08-029153) in view of WO 90/12277 (Bielle). Fukuda discloses a surface contour measurement device (Figure 1) for measuring a workpiece having an edge line (Figure 6) having a rotatable stage which is movable in the X- and Y-axis directions and has an inclination correction means (titubation device [42] rocking the object on titubation shaft (fulcrum)); see Figure 1 and English language translation pages 2-5, especially paragraphs 9 and 25. Fukuda discloses a measurement means [10A] being controlled by a measurement controller [50] which comprises measurement of a surface from a start point to an end point (which inherently have max/min Z-axis endpoints in

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the inclination measurement) to calculate an initial orientation, and input of X-axis, Y-axis, and swivel angle values to an error correction means, and further discloses adjusting the rotation, inclination, and Y-axis movement of the piece to correct the piece to a desired alignment based upon a result from an error calculation means; see especially Figure 2 and page 4 of English language translation and paragraphs 23, 33, and 39 of the original document. Fukuda discloses the method of automatic measurement of a surface from a start point to an end point (which inherently have max/min Z-axis endpoints in the inclination measurement) to calculate an initial orientation, and input of X-axis, Y-axis, and swivel angle values to an error correction means, and further discloses adjusting the rotation, inclination, and Y-axis movement of the piece to correct the piece to a desired alignment based upon a result from an error calculation means; see especially page 4 of English language translation and paragraphs 23, 33, and 39 of the original document. It is noted that Fukuda has predetermined X-axis start and end coordinates (as in Figure 3) which are programmed into the automatic controller which operates the X-axis slider which are subsequently subject to actual measurement. Fukuda teaches obtaining three (actual) measurements of the workpiece and using those measurements to fined a center line (locus) which determines the amount of adjustment required to be performed to the

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workpiece to position the workpiece to the desired alignment; see paragraphs 23 and 24 of the English language abstract and Figure 4.

With respect to claims 4-7, Fukuda teaches the claimed invention except for the use of a fulcrum-based, manually operated leveling device having a micrometer knob and a display of the orientation correction amount. Bielle teaches the use of a fulcrum-based, manually operated leveling device having a micrometer knob and a display of the inclination orientation correction amount in a surface roughness measurement device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a fulcrum-based, manually operated leveling device having a micrometer knob as taught by Bielle in the invention of Fukuda to orient the piece relative to the displacement detecting means, since this would advantageously provides a structure shown to be capable of positioning of the preferred measurement surface of the piece relative to the detecting means.

With respect to claims 1-3, neither Bielle nor Fukuda disclose manual displacement in the Y-axis direction in accordance with a displayed swivel correction angle. Fukuda discloses only the automatic operation of Y-axis and swivel correction due to error values (page 4, paragraph 25 of English abstract), and states that this method is superior to the prior known "hand regulation by the operating personnel". Fukuda thus "teaches away" from manual operation, but discloses that such operation is known in the prior art. As stated in *In re Gurley*, "the nature of the teaching is highly relevant and must be weighed in substance.

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A known or obvious composition does not become patentable simply because it has been described as somewhat inferior to some other product for the same use", In re Gurley, 27 F.3d 551, 554, 31 USPQ2d 1130, 1132 (Fed Cir. 1994). See also MPEP 2145(X)(D)(1). In the present case, Fukuda discloses manual operation as known, but somewhat inferior for the same use as automatic operation. The use of manual operation of inclination angle in Bielle further supports the usefulness and obviousness of manual operation of system parameters. Therefore, it would have been obvious to one having ordinary skill in the art to use manual operation of Y-axis correction, which is disclosed to be known in the prior art by Fukuda, in the invention of Fukuda in view of Bielle to correct the orientation of a workpiece, since this would advantageously allow correction of positioning of the preferred measurement surface of the piece relative to the detecting means in the Y-axis direction. The use in the invention of Fukuda of micrometer knobs as taught by Bielle for manual operation would have been obvious to one having ordinary skill in the art at the time the invention was made, since micrometer knobs are well known for use in manual position adjustment and perform that function in Bielle for the purpose desired by Fukuda.

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Response to Arguments

3. Applicant's arguments with respect to claims 8 and 10-12 have been considered but are moot in view of the new ground(s) of rejection.

4. Applicant's arguments filed 09 June 2003 have been fully considered but they are not persuasive. Fukuda teaches obtaining three (actual) measurements of the workpiece and using those measurements to fined a center line (locus) which determines the amount of adjustment required to be performed to the workpiece to position the workpiece to the desired alignment; see paragraphs 23 and 24 of the English language abstract and Figure 4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is 703-305-0846. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 703-305-4816. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Michael Cygan July 24, 2003